

Atty. Docket No. 0472-PC-D1

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for outputting a value proportional to a horizontal phase to said interpolator; and

vertical discrete time oscillator coupled to said storage and said interpolator for receiving a predetermined numerator value and a predetermined denominator value and for outputting a value proportional to vertical phase and a value indicating the end of a vertical scan.

15. The computer of Claim 14, wherein said storage further comprises a line buffer and at least two flip-flop elements for storing pixel values.

16. The computer of Claim 15, wherein said interpolator further comprises a polyphase interpolator coupled to said storage for receiving pixel values for at least four adjacent pixels.

17. The computer of Claim 16, wherein said interpolator further comprises a polyphase interpolator coupled to said storage using discrete cosine transform interpolation.

18. The computer of Claim 17, wherein said control further comprises at least one register for storing a predetermined ratio corresponding to a present input resolution and a desired output resolution for the display data.

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19. The computer of Claim 18, wherein said at least one display comprises a flat panel display having a fixed resolution.

20. The computer of Claim 19 further comprising at least two displays, wherein a first display comprises a flat panel display with a fixed resolution, and a second display comprises a CRT display.

21. The computer of Claim 20, wherein said predetermined numerator received by said vertical discrete time oscillator is proportional to the vertical size of an LCD panel and said predetermined denominator received by said vertical discrete time oscillator is proportional to the vertical size of a CRT display.

22. The computer of Claim 21, wherein said LCD panel is a fixed resolution LCD panel and said CRT display is a CRT projection display.

23. The computer of Claim 22, wherein said LCD panel is a fixed resolution LCD panel and said CRT display is a projection display and resolution of said CRT projection display is lower than the resolution of said fixed resolution LCD display.